

LEVIN, S.Z.; CUREVICH, G.S.; FEDOVA, I.G.; BATENINA, A.D.

Hydrogenation of propionaldehyde to propyl alcohol under medium pressure. Zhur.prikl.khim. 38 no.6:1414-1417 Je '65.

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

GUREVICH, G. TS.

"On Pathogenesis and Immunoprophylaxis of Diphtheria. (Experimental Research)." Minsk State Medical Inst, Minsk, 1955. (Dissertation for the Degree of Candidate of Medical Sciences)

SO: M-972, 20 Feb 56

GUREVICH, G. Ts.

✓ 8198. Distribution of *Corynebacterium diphtheriae* in the bodies of immunized animals. G. Ts. Gurevich. Zentraln. Akad. Nauk. No. 9. 36-33. Referat. Zek. Publ. Ussr. No. 7333 - Study of the distribution of *C. diphtheriae* in the bodies of guinea pig and mice was carried out. The animals had been previously immunized by the use of anatoxin, anavaccine, ether vaccine, or vaccine plus anatoxin. The immunized animals were injected with sublethal and hyperlethal doses of a culture of *C. diphtheriae*. The use of anatoxin alone in the

guinea pig sera hardly decreased the yield of bacteria obtained from the organs. The combined vaccine reduced the yield by a factor of 2 compared with the controls. In this respect anavaccine produced better results than anatoxin plus ether vaccine. Anavaccine alone produced some decrease in the yield from guinea pig organs. Ether vaccine produced the weakest effect. In the mice series, intragastric immunization was more effective than subcut. The combined vaccine reduced the yield by 14-22 times. Anatoxin plus anavaccine gives the best effect. Ether vaccine can produce a condition of sensitization in that, in this case, the yield from the organs of immunized mice is greater than in the controls. (Russian)

C. I. (USSR)

EL'BART, B.Ya, professor, zasluzhennyy deyatel' nauki; RUBINSHTEYN, I.S., dotsent; SAKOVICH, A.O., dotsent; VILENCHIK G.Yu., kandidat meditsinskikh nauk; GURVICH, G.I.S., kandidat meditsinskikh nauk; IZRAITEL', N.A., kandidat meditsinskikh nauk; KNIGA, A.N., kandidat meditsinskikh nauk; LEVINA, P.I., kandidat meditsinskikh nauk; MARCHENKO, L.O., kandidat meditsinskikh nauk; RABINOVICH, Ye.M., kandidat meditsinskikh nauk; RUBINSHTEYN, B.B., kandidat meditsinskikh nauk; SAMOKHINA, Z.F., kandidat meditsinskikh nauk; KRASIL'NIKOV, A.P., kandidat meditsinskikh nauk; ZMUSHKO, L.S., nauchnyy sotrudnik; NISENBAUM, I.M., nauchnyy sotrudnik; SOLOV'YANCHIK, S.I., nauchnyy sotrudnik; SUSLOVA, M.N., nauchnyy sotrudnik; POL'SKIY, S., redaktor; KUFTINA, P., tekhnicheskiy redaktor; KALECHITS, G., tekhnicheskiy redaktor.

[Practical manual on medical microbiology and bacteriological methods of sanitation research] Prakticheskoe posobie po meditsinskoj mikrobiologii i sanitarno-bakteriologicheskim metodam issledovaniij. Minsk, Gos.izd-vo BSSR, Redaktsiia nauchno-tekhn. lit-ry, 1957. 356 p. (MIRA 10:6)

(MICROBIOLOGY)

GUREWICH, G.TS; NISENBAUM, I.M.

Immunogenic properties of diphtheria anatoxins; Zdrav. Bel. 7  
no.5:15-16 My '61. (MIRA 14:6)

1. Kafedra mikrobiologii. (zaveduyushchiy - professor B.Ya.El'bert)  
Minskogo meditsinskogo instituta.  
(DIPHTHERIA)

Gurevich, G.E.

PA 22759

USSR/Medicine - History  
Medicine - Public Health

Aug/Sep 1947

"Historical Congress," G. E. Gurevich, Stalino, 3<sup>1</sup>/<sub>2</sub> pp

"Sovetskoye Zdravookhraneniye" No 6

The program of Soviet Health Services started with the organization of the People's Commissariat for Health. States various facts which came to light during a Medical Historical Congress. It apparently was held sometime in 1918 or 1919. Article claims that Russian medicine is not political.

22759

GUREVICH, G. Ye.

Gurevich, G. Ye. "For historic truth", (on the history of medical education in Russia), Vracheb. delo, 1948, No. 12, paragraphs 1109-10.

SO: u-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).

GUREVICH, G. Ye

SHAROV, N.A., inzhener; GUREVICH, G.Ye., inzhener.

Pavilion of the Kazakh SSR at the All-Union Agricultural Exhibition. Gidr. i mel. 6 no.8:30-34 Ag '54. (MLRA 7:9)  
(Kazakhstan--Water resources development) (Moscow--Agricultural exhibitions)

LATFULLINA, R.Sh.; GUREVICH, G.Ye.; RUSAKOVA, T.I.

Increasing the fermenting power of dried baker's yeast.  
Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 3:91-96  
'59. (MIRA 13:2)  
(Yeast)

LIBERMAN, F.Ya.; VAL'KOVA, A.A.; DYLIS, K.Yu.; RYUMINA, L.A.; SOBOLEVA, G.I.; TUPOVA, V.V.; KHABUR, B.P., otv.red.; GUREVICH, G.Ye., kand.tekhn. nauk, nauchnyy red.; GOROBETS, V.A., Kand.voyen.-morskikh nauk, red.; KOLODKIN, A.L., kand.yurid.nauk, red.

[Conditions for the commercial operation of the merchant marine during foreign sailing; rules, customs and practices in Japanese sea ports.] Usloviia kommercheskoi ekspluatatsii morskogo flota v zagr-nichnom plavaniil; pravila, obychai i praktika morskikh portov Iaponii. Leningrad, Izd-vo "Morskoi transport." No.10, pt.1. 1963. 90 p. (Leningrad. TSentral'nyi nauchno-issledovatel'skii institut morskogo flota, Informatsionnyi sbornik, no.93). (MIRA 17:2)

1. Sotrudnik sektora ekspluatatsii flota TSentral'noto nauchno-issledovatel'skogo instituta morskogo flota (for Liberman, Val'kova, Dylis, Ryumina, Soboleva, Tupova).

GUREVICH, G. [Ye.]

SOROKIN, P. and GUREVICH, G.

Peregruzochnye raboty pri morskikh voinskikh perevozkakh. [Trans-shipping operations of troop transportation by sea]. Moskva, Norskoi transport, 1947, 247 p. illus.

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

GUREVICH, G. E.

Organization for Cargo-Carrying and Cargo-Handling by Merchant Vessels (Organizatsiya Terevozok i Gruzovykh Rabot na Morskom Transporte), Maritime Transport Press (MorTrans-Izdat), Moscow-Leningrad, 1952, 384 pp. Illustr. Seven appendices giving Merchant Fleet Ministry cargo forms.

Book D 198267, 24 Jan 55

GUREVICH, G. Ye.

"Maritime Tariffs and Vessel Chartering in the USSR," Morskoy Transport,  
pp 318-333, 1952

Translation of excerpts of Chapter 12 of the book "Organization of Transport and  
Cargo Work in Maritime Transport," Moscow, 1952

Translation W-31619, 20 Jan 56

GUREVICH, G. YE.

GUREVICH, G. Ye., kand. tekhn. nauk.

Economic factors in seagoing ship speeds. Trudy TSNIIMF no.13:44-79  
(MIRA 11:2)

'57.

(Ship propulsion) (Transportation--Cost of operation)

VAL'KOV, Nikolay Aleksandrovich; GUREVICH, G.Ye., red.; ALEKSANDROV, L.A.,  
red. izd-va; LAVRENOVA, N.B., tekhn. red.

[Planning and records of cargo operations in seaports] Planirovanie  
i uchet gruzovykh rabot morskogo porta. Moskva, Izd-vo "Morskoi  
transport," 1958. 141 p. (MIRA 11:10)  
(Cargo handling) (Harbors)

GUREVICH, Georgiy Yefimovich; BAKAYEV, V.G., nauchnyy red.; FEDOROV, V.P.,  
red.; LAVRENOVA, N.B., tekhn. red.

[Organization of the work of the merchant marine] Organizatsiia raboty  
morskogo flota. 2. perer.izd. Moskva, Izd-vo "Morskoi transport,"  
1961. 352 p. (MIRA 14:12)  
(Merchant marine)

GUREVICH, GEORGIY YEFIMOVICH

Organizatsiya Raboty Morskogo Flota. 2. perer. Izd.  
Moskva, Izd-vo "Morskoy Transport," 1961.

352 P. Illus., Diagrs., Tables.

Bibliographical Footnotes.

CUREVICH, G. Yu.

On "mechanical analysis of the 'tectonic problems' in the light of classical theory: some questions of the mechanic of a body being in a state of deformation. (In Russian)  
Trudy Geoph. Inst. U.S.S.R. Acad. Sci., Moscow, No. 31 (158), 1955, 156 p.

GUREVICH, I.

GUREVICH, I.

Innovators in automotive passenger transportation. Avt.transp. 32  
no.5:16-17 My '54. (MLRA 7:7)

1. Glavnnyy inzhener pervogo avtobusnogo parka Avtetransportnogo  
upravleniya Lengrispelkema.  
(Leningrad--Meter buses) (Meter buses--Leningrad)

GUREVICH, I., glavnny inzhener parka.

Servicing and repairing motorbuses in Leningrad's first motorbus  
fleet. Avt.transp. 33 no.11:12-15 N '55. (MLRA 9:3)  
(Leningrad--Motorbuses--Repairing)

GUREVICH, I.

Using films in making interfacings. Prom. koop. 12 no. 2:18-19 F '58.  
(MIRA 11:1)

1. Starshiy inzhener tekhnicheskogo otdela Belpromsoveta, Minsk.  
(Photography--Films) (Minsk--Textile fibers, Synthetic)

GUREVICH, I., inzh.

Saving nonferrous metals. MTO 2 no.2:46 P '60. (MIRA 13:5)  
(Kolomna--Locomotive works)

GUREVICH, I., inzh.

Effect of the method used in cleaning the underwater hull on its  
corrosion resistance. Rech. transp. 19 no. 6:21-23 Je '60.

(MIRA 14:2)

(Ships—Maintenance and repair)

(Corrosion and anticorrosives)

GUREVICH, I., master sporta

Records are won with work. Kryl.rod. 13 no.6:2 Je '62.  
(MIRA 19:1)

GUREVICH, I., inzhener.

Valuable innovations. Mast.ugl. 2 no.12:13-14 D '53. (MLRA 6:11)  
(Coal mines and mining)

GUREVICH, I., inzhener.

Results of prearranged work. Mast.ugl.3 no.10:11-12 0 '54.  
(MLRA 7:12)  
(Coal mines and mining)

GUREVICH, I. inzhener

High temp̄s in drifting based on a continuous work schedule.  
Mast. ugl. 3 no.12:10-11 D '54. (MLRA 8:6)  
(Coal mines and mining)

GUREVICH, I. inzhener; TURBIN, A. inzhener

Four cycles per twenty-four hours in preparatory mining.  
Mast. ugl. 4 no. 2:13-14 F '55. (MLRA 8:6)  
(Ural Mountain region--Coal mines and mining)

GUREVICH, I., kand.tekhn.nauk

Method of evaluating the corrosion failure of a ship hull plating.  
Rech. transp. 20 no.9:28-29 S '61. (MIRA 14:9)  
(Hulls (Naval architecture)--Corrosion)

GUREVICH, I., kand. tekhn. nauk

Complete mechanization of the repair of ship hulls on slipways.  
Rech. transp. 21 no.10:26-29 0 '62. (MIRA 15:10)

(Ships--Maintenance and repair)

GUREVICH, I., kand.tekhn.nauk

Ways of reducing ship repairing costs. Rech.transp. 23  
(MIRA 19:1)  
no.9:29-30 S '64.

GUREVICH, I. A.

"Acetylene Derivatives: 78. Combination of Hydrogen Sulfide with 1-Methoxy-  
5-Alkyl-*n*-Hexene-3-On," Zhur. Obshch. Khim., 18, No. 8, 1948.  
Institute Organic Chemistry, Department of Chemical Science, AS

GUREVICH, I. A.; NAZAROV, I. N.; KUZNETSOVA, A. I.

p. 2148 Acetylene derivatives. 104. Investigation of heterocyclic compounds. X.  
New method of synthesis of tetrahydro-ethiopyrones by the action of hydrogen sulphide  
on vinylallyl-ketones. Zhurnal obshchei khimii 1949, Vol. 19, No 12

Translated Contents Lists of Russian Periodicals No 11, April 1950. Department of  
Scientific and Industrial Research.

GUREVICH, I. A.

'Nazarov, I. N., Gurevich, I. A., Kuznetsova, A. I.- "Acetylene derivatives. 140. Heterocyclic compounds. XVI. Synthesis of sulfur-containing analogs of steroids with a thiopyran ring ." (p. 992)

SO: Journal of General Chemistry, (Zhurnal Obshchey Khimii), 1952, Vol. 22, No. 9

ZARETSKIY, I.I.; KRASHILINA, A.Ya.; BORISOVA, L.N.; GUREVICH, I.B.

Experimental study of the combined action of antineoplastic antibiotics and X-ray irradiation in leukemias. Med.rad. 8 (MIRA 16:11)  
no.2:51-57 F'63

1. Iz laboratorii eksperimental'noy terapii bolezney sistemy krovi (zav. -prof. I.I.Zaretskiy) i rentgenologicheskogo otdeleniya (zav. - doktor med. nauk I.B.Gurevich) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi Ministerstva zdravookhraneniya SSSR.

★

BOGDANOVSKAYA, M.P.; ZOTIKOV, Ye.A.; MIYUKIN, A.V.; KONINETS, G.I.;  
KRASYUKOVA, L.I.; GURVICH, I.B.

Mechanism of therapeutic action of bone marrow transusion in  
the treatment of radiation sickness. Med. rad. 8 no.6:63-68  
Je '63. (MIRA 17:4)

1. Iz radiobiologicheskoy laboratorii (zav. - prof. N.O. Raushenbakh)  
i serologicheskoy laboratorii (zav. - kand. med. nauk Ye.A. Zotikov)  
Tsentral'nogo ordena Lenina instituta hematologii i perelivaniya  
krvi.

GUREVICH, I.B.

[Elimination of pain in labor] Obezbolivanie rodov. Feldsher & akush.  
no.3:8-12 Mr '50. (CLML 19:1)

GUREVICH, I.B.

Apparatus for determination of the phase and measurement of the amplitude  
of the serration of the roentgenkymogram. Ter. arkh. 23 no.1:36-38 Jan-  
Feb 51. (CIML 20:8)

1. Docent. 2. Of the Therapeutic Division (Head--Prof. M.S. Dul'tein),  
Central Order of Lenin Institute of Hematology and Blood Transfusion  
(Director--Prof. A.A. Bagdasarov, Corresponding Member of the Academy  
of Medical Sciences USSR).

MERKUL' V. E., BAGDASAROV A.A., AL'PERIN P.M., OUREVICH I.B., LOGINOVA F.E.,  
CHUKANOVA Z.I., SHKURKO E.A. ZARKHIN I.M.  
Sostoianie serdechno-sosudistoi sistemy i krovetворение pri  
gipertonicheskoi bolezni. [Condition of the cardiovascular  
system and hemopoiesis in hypertension] Ter. arkh. 23:2 Mar.  
Apr 51 p. 13-26.

1. Professor Bagdasarov, Corresponding Member of the Academy  
of Medical Sciences USSR, 2. Of the Hospital Therapeutic  
Clinic (Director--Prof. A. A. Bagdasarov) of the Pediatric  
Faculty of the Second Moscow Medical Institute imeni I. S.  
Stalin.  
CIML Vol. 20, No. 10 Oct 1951

SHNITSER, I. S., Prof., CHREVICH, I. B., Docent

Diagnosis, Radioscopic

Roentgenocardiokymography in Basedow's disease. Klin. med., 30, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

GUREVICH, I.B.  
BULYGINA, Ye.A.; GUREVICH, I.B.

Analysis of work of institutions in 1950-51. Akush. gin. no.3:57-63  
May-June 1953. (CLML 25:1)

1. Candidates Medical Sciences. 2. Of the Institute of Obstetrics and  
Gynecology (Director -- L. G. Stepanov), Ministry of Public Health  
USSR.

BAGDASAROV, A.A.; AL'PERIN, P.M.; GUREVICH, I.B.; LOGINOVA, F.I.; MERKUL, V.Ye.

Dynamics of cardiovascular changes in hypertension. Ter. arkh.,  
Moskva 25 no.4:48-65 July-Aug 1953. (CLML 25:4)

1. Of the Hospital Therapeutic Clinic (Director -- Prof. A. A. Bagdasarov, Corresponding Member ANS USSR) of the Pediatric Faculty of Second Moscow Medical Institute imeni I. V. Stalin.

DUL'TSIN, M.S., professor; GUREVICH, I.B., dotsent

Clinical reontgenological investigation of the heart in gastric  
and duodenal ulcer. Vest. rent. i rad. no. 2:25-32 Mr-Ap '54.  
(MLRA 7:6)

1. Iz gemoterapevticheskoy kliniki (zav. prof. M.S.Dul'tsin)  
TSentral'nogo ordena Lenina instituta hematologii i pereliva-  
niva krovi (dir. chlen-korrespondent AMN SSSR prof. A.A. Bag-  
dasarov).

(PEPTIC ULCER, pathology,

\*cardiovascular system)

(CARDIOVASCULAR SYSTEM, in various diseases,

\*peptic ulcer)

GUREVICH, I. B.

USSR/Medicine - Roentgenology

FD 212

Card 1/1

Author : Dul'tsin, M. S., Professor; Gurevich, I. B., Docent

Title : Clinical-roentgenological investigation of the heart during stomach and duodenal ulcers

Periodical : Vest. Rent. i Rad. 25-33, Mar/Apr 1954

Abstract : Ulcers in the stomach and duodenum are accompanied by a functional displacement in the circulatory system, which is not well expressed in the over-all clinical diagnosis. This can best be detected by X-rays and myocardiograms. 13 references; 10 USSR. Tables; graphs; two photographs (myocardiograms)

Institution : Hemotherapeutic Clinic (Chief - Professor M. S. Dul'tsin) Central Order of Lenin Institute of Hematology and Blood Transfusion (Director - Corresponding Member Academy of Medical Sciences USSR Professor A. A. Bagdasarov)

*GUREVICH I.*

BAGDASAROV, A.; AL'PERIN, P.; GUREVICH, I.; LOGINOV, F.; MERKUL', V.

Answer to M.A.Ivanitskai's discussion on the article by A.A.Bagdasarov, P.M.Al'perin, I.B.Gurevich, F.I.Loginova, and V.E.Merkul'.  
"Dynamics of cardiovascular modifications in hypertension."  
Terap. arkh. 26 no.3:87-88 My-Je '54. (MLRA 7:9)

(HYPERTENSION, pathology,

cardiovascular system)

(CARDIOVASCULAR SYSTEM, in various diseases,  
hypertension)

ANSHEVITS, M.Ya.; VOL'FSO, L.I.; GUDEVICH, L.B.; IVANOVA, N.A.;  
MIKHAYLOVA, L.I.; RODINA, R.I.; SKACHILIOVA, N.N.; TURBIMA, N.S.  
(Moskva)

Reactivity of patients to blood transfusion used with chemotherapy.  
Klin.med., 33 no.11:36-45 N '55. (MLRA 9:7)

1. Iz gemoterapevticheskoy kliniki (zav.-prof. M.S.Dul'tsin)  
Tsentral'nogo ordena Lenina instituta hematologii i perelivaniya  
krovi (dir.-chlen-korrespondent AMN SSSR prof. A.A.Bagdasarov)  
(BLOOD TRANSFUSION,  
with chemother.)  
(CHEMOTHERAPY,  
with blood transfusion)

GUREVICH, I.B., dotsent (Moskva)

On professor M.A.Ivanitska's article "Roentgenologic study of the heart in hypertonic disease." Terap.arkh. 28 no.3:86-87 '56.  
(HEART--RADIOGRAPHY) (MLRA 9:8)

EXCERPTA MEDICA Sec 16 Vol 7/12 Cancer Dec 59

5069. **Roentgenokymography of the heart in experimental acute radiation sickness (Russian text)** GUREVICH I. B. *Med. Radiol.* 1957, 2, 6 (p. 59)

An investigation was conducted on 50 dogs, irradiated with X-rays in doses of 300 and 600 r. The roentgenokymography of the heart was conducted on the experimental animals in a direct projection, and a three-lead ECG was prepared. Four phases in the development of changes on the part of the heart in the acute period were detected, corresponding in length to the periods of the radiation sickness. It was established that the fundamental change on the part of the heart is a depression of the contractile function of the myocardium, which is particularly marked in the third phase. The initial state of the myocardium has great significance in the development of the changes on the part of the heart.

AL'PERIN, P.M., doktor med.nauk; ANSHEVITS, M.Ya.; GUREVICH, I.B.; KRUPYANKO,  
V.Ye.; MSLAKHOVA, O.P.; RODINA, R.I. (Moskva)

Compound treatment of suppurative diseases of the lungs. Vrach.delo  
no.12:1343 D '57. (MIRA 11:2)

1. Tsentral'nyy ordens Lenina Institut hematologii i perelivaniya  
krovi. (LUNGS--DISEASES)

GARFUNKEL', M.L.; SUZDALEVA, V.V.; NEMENOVA, N.M.; ZARETSKIY, I.I.; GUREVICH,  
I.B. (Moskva)

Blood transfusion during modified reactivity of the organism caused  
by action of the spinal cord [with summary in English]. Arkh.pat.  
19 no.9:67-73 '57. (MIRA 10:12)

1. Iz patofiziologicheskoy laboratorii (zav. - prof. N.A.Pedorov)  
i laboratorii fizicheskoy i kolloidnoy khimi (zav. - prof. P.S.  
Vasil'yev) TSentral'nogo instituta hematologii i perelivaniya krovi  
(dir. - chlen-korrespondent AMN SSSR prof. A.A.Bagdasarov) Minister-  
stva zdravookhraneniya SSSR.

(BLOOD TRANSFUSION, experimental,

in spinal shock (Rus))

(SPINAL CORD, physiology,

eff. of section on reactivity to blood transfusion in  
animals (Rus))

AL'PERIN, P.M., doktor med.nauk; GUREVICH, I.B.; DORNIKOVA, N.P.; LOGINOVA, F.I.; MIRKUL', V.Ye.; RODINA, R.I.; SKACHILOVA, N.N.; TIKHONOVA, A.A.

Functional changes in hypertension following sleep therapy. Terap. arkh. 29 no.11:58-68 N '57. (MIRA 11:2)

1. Iz gospital'noy terapevicheskoy kliniki pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova i gemiterepevicheskoy kliniki TSentral'nogl ordena Lenina instituta gematologii i perelivaniya krovi (dir. - chlen-korrespondent AMN SSSR prof. A.A.Bagdasarov)

(HYPERTENSION, therapy,  
sleep ther. (Rus))  
(SLEEP, therapeutic use,  
hypertension (Rus))

GUREVICH, I.B., dots.

Modification of Frey's method; determination of the size of the ventricles [with summary in English]. Vest. rent. i rad. 32 no.6:45-50 N-D '57. (MIRA 11:3)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir.-chlen-korrespondent AMN SSSR prof. A.A. Bngdasarov).

(HEART, anat. & histol.

size of ventricles, determ. by modified Frey method (Rus)

GUREVICH, I.B., dots.

Comments on A.I. Sadof'sv's article "Some results of X-ray  
kymographic studies of patients with foreign bodies in the cardiac  
region (Vestnik rentgenologii i radiologii, 1957, 1, 40-'5).  
Vest.rent. i rad. 33 no.3:79-82 My-Je '58 (MIRA 11:8)  
(HEART--RADIOGRAPHY)  
(CHEST--FOREIGN BODIES)

EXCERPTA MEDICA Sec. 5 Vol. 11/8 Gen. Pathology Aug 58

*1968. BLOOD TRANSFUSION IN CHANGED BODY REACTIVITY RESULTING  
FROM TRANSECTION OF THE SPINAL CORD (Russian text) - Gar-  
funkel M. L., Suzdaleva V. V., Nemenova N. M., Zaretz-  
ky I. J. and Gurevich I. B. - ARKH. PATOL. 1957, 19/9 (67-73)*

The spinal cords of 12 dogs were severed at the C VII segment. Twenty-five to 40 days post-operatively, when the dogs had recovered, a transfusion of 10-15 ml./kg. body weight, with sterile, isogenous citrated blood, was administered. Severe reactions occurred: hypotension, respiratory disturbances and cardiac dysfunction. Decrease of the viscosity of the blood, and decrease of chloride in the whole blood as well as in the plasma and erythrocytes could be detected. The vessels were atonic and oedemas appeared in the internal organs and the brain. This reaction was brought about by a grave disturbance of compensatory processes ordinarily following haemotransfusion and regulated by the CNS. Brandt - Berlin (V, 2, 8)

GUREVICH, I.B.; GARFUNKEL', M.L. (Moskva)

Changes in the cardiovascular system in citrate shock [with summary in English]. Pat.fiziol. i eksp.terap. 2 no.6:33-37 N-D '58.  
(MIRA 12:1)

1. Iz patofiziologicheskogo otdeleniya (zav. - chlen-korrespondent AMN SSSR prof. N.A. Fedorov) TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN prof. A.A. Bagdasarov).

(CITRATES, eff.

induction of shock, changes in cardiovasc. system  
in dogs (Rus))

(SHOCK, exper.

induced by citrates, cardiovasc. system changes in  
dogs (Rus))

(CARDIOVASCULAR SYSTEM, physiol.

eff. of shock induced by citrates in dogs (Rus))

GUREVICH, I. B. Doc Med Sci -- (diss) ■ "X-ray examination of the heart in  
anemia (Clinical experimental study)." Mos, 1959. 22 pp (State Sci Res X-ray  
and Radiological Inst of the Min of Health RSFSR), 200 copies. List of author's  
works pp 21-22 (14 titles) (KL, 44-59, 128)

GUREVICH, I.B.; SKURKOVICH, S.V.; KHOKHLOVA, M.P. (Moskva)

Cardiac changes in experimental thermal burns [with summary in English]. Pat.fiziol. i eksp.terap. 3 no.1:40-44 Ja-F '59.  
(MIRA 12:2)

1. Iz patofiziologicheskoy laboratorii (zav. - chlen-korrespondent AMN SSSR prof. N.A. Fedorov) i patologoanatomicheskoy laboratorii (zav. N.M. Nemenova) TSentral'nogo ordena Lenina Instituta hematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov).

(BURNS, exper.  
eff. on heart (Rus))

(HEART, physiol.  
eff. of burns on cardiac funct. & morphol. in  
animals (Rus))

GURNEVICH, I.B.; GARFUNKEL', M.L. (Moskva)

Changes in the heart in acute hemorrhage. Pat.fiziol. i eksp.terap. 3  
(MIRA 13:3)  
no.6:39-44 N-D '59.

1. Iz patofiziologicheskoy laboratorii (zaveduyushchiy - chlen-korrespondent AMN SSSR prof. N.A. Fedorov) Tsentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (direktor - deystvitel'nyy chlen AMN SSSR, zasluzhennyy deyatel' nauk prof. A.A. Bagdasarov).  
(HEMORRHAGE experimental)  
(MYOCARDIUM physiology)

GUREVICH, I.B., dotsent

Dynamics of cardiac changes in anemia; X-ray clinical and experimental studies. Probl.gemat. i perel.krovi 4 no.7: 31-37 J1 '59. (MIRA 12:10)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof.A.A.Bagdasarov) Ministerstva zdravookhraneniya SSSR. (ANEMIA, physiol.

heart, x-ray (Rus))

(HEART, in var. dis.

anemia, x-ray (Rus))

AL'PERIN, P.M., prof.; ANSHEVITS, M.Ya.; GUREVICH, I.B.; KRUPYANKO, V.Ye.;  
MELEKHOVA, O.P.; RODINA, R.I.

Treating bronchiectasis and abscess of the lungs with antibiotics  
in combination with hemotherapy. Sov.med. 24 no.9:51-56 S '60.  
(MIRA 13:11)

1. Iz Tsentral'nogo ordena Lenina instituta hematologii i pereli-  
vaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A.  
Bagdasarov) Ministerstva zdravookhraneniya SSSR.  
(BRONCHIECTASIS) (LUNGS—ABCESS) (ANTIBIOTICS)  
(BLOOD—TRANSFUSION)

OSECHENSKAYA, G.V.; GUREVICH, I.B.; KHOKHLOVA, M.P.

Cardiac changes in leukemias. Terap.arkh. no.8:71-78 '62.  
(MIRA 15:12)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i pereli-  
vaniya krovi (dir. - dotsent A.Ye. Kiselev).  
(LEUKEMIA) (HEART—DISEASES)

GUREVICH, I.B., dotsent

Protective screens for personnel during trochoscopic examination and for protecting physicians during the examination of the osteoarticular system. Vest.rent.1 rad. 35 no.1:54-55 Ja-F '60.  
(MIRA 13:6)

1. Is TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR zasluzhnyy deyatel' nauki prof. A.A. Bagdasarov).  
(RADIATION PROTECTION)  
(BONE AND BONES radiogr.)

GUREVICH, Iosif Borisovich (Central Order of Lenin Institute of Hematology and Blood Transfusion of the Ministry of Health, USSR)  
for Doctor of Medical Sciences on the basis of the dissertation defended  
23 November 1959 in the Council of the State Scientific Research Roentgen-  
Radiological Institute of the Ministry of Health, RSFSR,  
entitled: "Roentgenological Investigation of the Heart in Anemias  
(Clinical and Experimental Investigation)" (BVISSO USSR, 2-61,19)

24  
29

GUREVICH, I. B.; KOZINER, V. B. (Moskva)

Action of polyglucin on the heart and the hemodynamics during  
plethoric transfusion and during acute hemorrhage. Arkh. pat.  
no.2:42-49 '62. (MIRA 15:2)

1. Iz patofiziologicheskoy laboratorii (zav. - chlen-korrespondent  
AMN SSSR prof. N. A. Fedorov) i rentgenovskogo otdeleniya (zav. -  
doktor meditsinskikh nauk I. B. Gurevich) TSentral'nogo ordena  
Lenina instituta hematologii i perelivaniya krovi (dir. - deyst-  
vitel'nyy chlen AMN SSSR prof. A. A. Bagdasarov[deceased])  
Ministerstva zdravookhraneniya SSSR.

(HEMORRHAGE) (DEXTRAN--PHYSIOLOGICAL EFFECT)  
(BLOOD--CIRCULATION) (HEART)

GUREVICH, I.B., doktor. med. nauk

"X-ray study in hypertension" by I.M. IAkhnich. Reviewed by  
I.B. Gurevich. Vest. rent. i rad. 37 no.1:79-80 Ja-F '62.  
(MIRA 15:3)

(HYPERTENSION) (DIAGNOSIS, RADIOSCOPIC)  
(IAKHNICH, I.M.)

GUREVICH, I.B.; TURBINA, N.S.

Combined treatment of chronic myeloleukosis and lymphogranulomatosis with aurantin and X-rays. Med. rad. 8 no.12:3-8  
(MIRA 17:8)  
D '63.

1. Iz hematologicheskoy kliniki (zav. - prof. M.S. Dul'tsyn)  
i rentgenologicheskogo otdela (zav. - prof. I.B. Gurevich)  
TSentral'nogo ordena Lenina instituta hematologii i perelvaniya  
krovi.

GUREVICH, I.B., prof.; MIRAZYAN, R.I.

Use of radiotherapy in the acute period of burn disease. Med. rad. 9  
no.1:20-24 Ja '64. (MIRA 17:9)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya  
krovi (dir. - dotsent A.Ye. Kiselev), Moskva.

FEDOROV, N.A.; GARFUNKEL', M.L.; GUREVICH, I.B.; TROITSKIY, V.B.

Effect of blood transfusion on heart function in experimental  
myocardial infarct. Kardiologija no.1:35-42 '64.

(MIRA 17:10)

1. Patofiziologicheskaya laboratoriya (zav.- deyatel'nyy  
chlen AMN SSSR prof. N.A. Fedorova) i rentgenologicheskoye  
otdeleniye (zav.- doktor med. nauk I.B. Gurevich) TSentral'-  
nogo ordena Lenina instituta hematologii i perelivaniya  
krovi (dir.- dotsent A.Ye. Kiselev), Moskva.

GUREVICH, I.B., prof.; MURAZYAN, R.M., kand. med. nauk

Changes in the heart in burn disease; Clinicorontgenologic  
study. Sov. med. 27 no.1:37-40 Ja '64. (MIRA 17:12)

1. TSentral'nyy ordena Lenina institut hematologii i perelivaniya  
krovi (direktor - dotsent A.Ye. Kiselev), Moskva.

NIKOLAEVA, N.V., NIKONOVICH, I.B., prof.

Case of chronic reticuloxanthomatosis (Hand-Schuller-Christian disease)  
in adults. Probl. gemat. i perel. krovi 9 no.11:43-45 N '64.  
(MIRA 18:4)

I. TSentral'nyy ordena Lenina inatitut gematologii i perelivaniiya  
krovi (dhr. - dotsent A.Ye. Kisselov), Moskva.

GUREVICH, I.D. gornyy inzhener

Some problems of work standardization in cutter-loader stopes.  
Ugol' 30 no.5:44-45 My '55. (MLRA 8:6)

1. Laboratoriya organizatsii proizvodstva Chelyabinskogo filiala  
Vsesoyuznogo nauchno-issledovatel'skogo ugol'nogo instituta.  
(Chelyabinsk Basin--Coal mines and mining)

*SEARCHED* *INDEXED* *10*  
AUTHOR: Gurevich, I.D.

133-6-31/33

TITLE: From the experience in cost accounting at a tube manufacturing plant. (Iz opyta khozrascheta na trubnom zavode).

PERIODICAL: "Stal'" (Steel), 1957, No.6, pp. 569-570 (USSR).

ABSTRACT: Methods of calculating costs of production used on the Pervoural'skiy Tube Works are outlined.

ASSOCIATION: Pervoural'sk New Pipe Plant (Pervoural'skiy Novotrubnyy Zavod).

AVAILABLE: Library of Congress  
Card 1/1

GUREVICH, I. D., gornyy inzh.

Labor productivity reached the level set for 1965. Ugoil' 37  
no.10:9-11 0 '62. (MIRA 15:10)

1. Kombinat Donetskugol'.

(Donets Basin--Coal mines and mining--Labor productivity)

GUREVICH, I. E., and RUDOV, V. M. (Ural polytechnical institute S. M. Kirov)

"On the influence of superficially active materials on cathode precipitation of brass from pyro-phosphate electrolytes".

Report presented at the Intervuz Conference on Electrodeposition of Nonferrous Metals, Ural Polytechnical Institute im S. M. Kirov, Sverdlovsk, held from 27-30 May 1963.

(Reported in *Tsvetnyye Metally*, No. 10, 1963, pp. 82-84)  
JPRS 24,651 19 May 64

BORODULIN, Iosif Pavlovich; MATSNEV, K.M., nauchnyy red.; GUREVICH,  
I.F., red.; NESMYSLOVA, L.M., tekhn. red.

[Industrial training of mechanics for the repair of electrical equipment and underframes of diesel locomotives in professional technical schools] Proizvodstvennoe obuchenie slesarei po remontu elektrooborudovaniia i ekipazhnoi chasti teplovozov v professional'no-tehnicheskikh uchilishchakh; metodicheskoe posobie. Moskva, Proftekhizdat, 1962. 132 p. (MIRA 16:3)  
(Diesel locomotives--Maintenance and repair)  
(Electricians--Education and training)

KATS, Mikhail Isayevich; KORF, Esfir' Isaakovna; KUSHELEV, V.F.,  
nauchn. red.; BYKOVA, I.V., red.; GUREVICH, I.F., red.

[Safety measures in the enterprises of the chemical industry;  
what an operator of chemical equipment should know about the  
safety of work conditions] Tekhnika bezopasnosti na pred-  
priyatiyah khimicheskoi promyshlennosti; chto dolzhen znat'  
apparatchik khimicheskogo proizvodstva o bezopasnykh uslo-  
viyah raboty. Moskva, Vysshiaia shkola, 1964. 91 p.  
(MIRA 18:2)

5(4)

SOV/170-59-4-11/20

AUTHOR: Gurevich, I.G.

TITLE: On the Operation Mechanism of the Gas Diffusion Electrode (Applicable to the Hydrogen-Oxygen Fuel Element) ((O mekhanizme raboty gazovogo diffuzionnogo elektroda (primenitel'no k vodorodno-kislorodnomu toplivnomu elementu))

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr 4, pp 78-86 (USSR)

ABSTRACT: Good results obtained by Justi and Bacon with hydrogen-oxygen fuel cells can not be explained on the basis of the existing concepts on the operation mechanism of the gas diffusion electrodes. Therefore the author considers processes taking place in these electrodes from the viewpoint of the Lykov theory [Ref 17] about the substance transfer in bodies with capillary pores. The author proposes a mechanism for operating a gas diffusion electrode. One can obtain a comparatively low polarization (i.e., high efficiency factor) at the high density of current (with respect to the visible electrode surface) by developing the inner surface of the electrode, transferring thereby the operation of the cell (i.e., electrode processes) into the region of low polarizations. In order to ensure the

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SOV/170-59-4-11/20

On the Operation Mechanism of the Gas Diffusion Electrode (Applicable to the Hydrogen-Oxygen Fuel Element)

run of electrode processes throughout the entire inner surface of the electrode, certain necessary conditions should be fulfilled, such as the contact of the conducting surface with gases (hydrogen and oxygen) and electrolyte; the absence of "transport" hindrances in the inlet and outlet of the reacting and generating gases and substances, etc. These favorable conditions could be created by covering the entire inner surface of the electrode with an overall thin layer of the electrolyte. The author suggests a design for the electrode and its filling with electrolyte shown in Figure 3. In conclusion, the author explains, on the basis of the proposed mechanism, the results of the Justi and Bacon hydrogen-oxygen fuel cells.

There are 2 graphs, 2 schematic diagrams, 2 tables and 24 references, 12 of which are Soviet, 8 English and 4 German.

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SOV/170-59-4-11/20

On the Operation Mechanism of the Gas Diffusion Electrode (Applicable to the Hydrogen-Oxygen Fuel Element)

ASSOCIATION: Institut energetiki AN BSSR (Institute of Power Engineering of the AS Belorussian SSR), Minsk.

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26.2510

45117  
S/170/63/006/002/008/018  
B104/B186

AUTHORS: Curevich, I. G., Bagotskiy, V. S.

TITLE: Porous electrodes operating under diffusion type reagent feeding conditions

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 2, 1963, 60-68

TEXT: Here the work of porous electrodes is studied, allowing for polarization- and ohmic losses in an electrode of finite thickness, unlike other papers (O. S. Ksenzhek, ZhFKh, 36, no. 5, 1962; 36, no. 2, 1962; L. G. Austin, Symposium on Fuel Cells, Chicago Meeting, Division of Petroleum Chemistry, Am. Chem. Soc., September 3-8, 1961). Electrically neutral molecules are assumed to act as one reagent, the ions of the electrolyte as the second. The neutral molecules move in the system electrode-electrolytic chamber only by molecular diffusion, the ions by diffusion and migration in the electric field of the electrodes. It is further assumed that the mixture filling the electrode has an ionic concentration much exceeding the concentration of the neutral molecules. Thus the conductivity of the mixture may be considered constant, and the potential developing through ion migration can be neglected. In Card 1/5

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accordance with Ya. B. Zel'dovich (ZhFKh, 13, no. 2, 1939) the  
expressions

$$\eta \equiv \frac{RT}{\alpha F \Omega_{\text{npes}}} u \approx \frac{RT}{\alpha F \Omega_{\text{npes}}} \Theta \times \\ \times \left\{ \frac{\sqrt{V-\Delta} \operatorname{ch} \left[ \zeta \sqrt{a} + \operatorname{Arch} \frac{2ac_0 + b}{\sqrt{V-\Delta}} \right] - b}{2aK} + \right. \\ \left. + \frac{\Omega_{\text{npes}}}{\Theta} \ln (Q' + \sqrt{Q'^2 - B'}) \right\}, \quad (31)$$

$$i \equiv \frac{j_0}{A\psi} c'' \approx \frac{1}{2} \frac{j_0 \sqrt{V-\Delta}}{A\psi} \operatorname{ch} \left[ \zeta \sqrt{a} + \operatorname{Arch} \frac{2ac_0 + b}{\sqrt{V-\Delta}} \right]. \quad (32)$$

for distribution of polarization and of the current over the depth of the porous electrode are obtained by extensive calculation. Here are

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$$\epsilon \approx \frac{1}{V^a} \left[ \operatorname{Arch} \frac{2ac + b}{V - \Delta} - \operatorname{Arch} \frac{2ac_0 + b}{V - \Delta} \right], \quad (28),$$

$$a = 2A\psi \left( \frac{M}{K_1} + K_1 \right); \quad b = -2A\psi \frac{E}{K_1};$$

$$\Delta = 8A\psi \left( \frac{M}{K_1} + K_1 \right) \left\{ K^2 - 2A\psi \left( \frac{M}{K_1} + K_1 \right) c_1^2 + 2A\psi \frac{E}{K_1} c_1 \right\} -$$
$$- 4(A\psi)^2 \frac{E^2}{K_1^2}.$$

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$$K_1 = Q + \sqrt{Q^2 - B},$$

$$Q = \frac{K_1^2 K_2^2}{4 A \phi} \{ z_1^{K_1} [K_2 \ln z_1 - 1] - z_0^{K_1} [K_2 \ln z_0 - 1] \}^{-1}; \quad (25)$$

$$B = \frac{E K_2 \left( \frac{1}{z_1^{K_1}} - \frac{1}{z_0^{K_1}} \right) - M \left[ \frac{1}{z_1^{K_1}} [K_2 \ln z_1 + 1] - \frac{1}{z_0^{K_1}} [K_2 \ln z_0 + 1] \right]}{z_1^{K_1} [K_2 \ln z_1 - 1] - z_0^{K_1} [K_2 \ln z_0 - 1]}, \quad (26)$$

$$C_2 = \frac{\Omega_{\text{pred}}}{\Theta} \ln (Q + \sqrt{Q^2 - B}).$$

$K = \psi \Theta$ ,  $A = I_0 / I_{\text{limit}}$ ,  $R$  is the effective resistance of the mixture in the pores,  $F$  the Faraday number,  $d$  the thickness of the diffusion layer at the frontal area of the electrode,  $\Theta$  the electrode charge factor,  $I_0$  the effective exchange current to the porous electrode,  $\Omega_{\text{pred}}$  characterizes

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Porous electrodes operating under ... S/166/63/006/002/008/018  
B104/B186

the relation between polarizability of the electrode, the limit value  
of the current and the effective resistance of the mixture. There is  
1 figure.

ASSOCIATION: Energeticheskiy institut AN BSSR, g. Minsk  
(Power Engineering Institute AS BSSR, Minsk)

SUBMITTED: July 19, 1962

Card 5/5

GUREVICH, I.G.; SIMKIN, M.M.; ATABEKOV, G.I., doktor tekhnicheskikh nauk,  
professor, redaktor; BARMICHEV, V., redaktor; ALEKSANDROWICH, Kh.,  
tekhnicheskiy redaktor.

[Crystal triodes and their uses] Kristallicheskii triod i ego pri-  
menenie. Pod.red.G.I.Atabekova, Minsk, Izd-vo Akad.nauk BSSR, 1957.  
219 p.

(MIRA 10:5)

(Transistors)

GUREVICH, I.G.

Current situation in the development of fuel cells. Inzh.-fiz.  
zhur. no.2:75-88 F '58. (MIRA 13:1)

1. Institut energetiki AN BSSR, Minsk.  
(Fuel cells)

GUREVICH, I. G.

"Liquid Porous Electrodes under Steady Working Conditions."

Report presented at the 11th Annual Meeting of the International Committee on Electrochemical Thermodynamics and Kinetics (CITE), Moscow, 19-25 Aug 63.

45416

S/170/63/036/003/008/014  
B104/B186

26/2510

AUTHORS: Gurevich, I. G., Bagotskiy, V. S.

TITLE: The efficiency of porous electrodes working under diffusion feeding of reagent

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 3, 1963, 69 - 80

TEXT: The efficiency of a porous electrode was defined by L. G. Austin (Symposium on Fuel Cells, Chicago Meeting, Division of Petroleum Chemistry, Am. Chem. Soc., September 3 - 8, 1961) and O. S. Keenshok (ZhFKh, 36, no. 3, 1962). Working on this basis, the authors derive two particular solutions for small and large polarization areas of an electrode to their equations

$$c'' = AW \left\{ c \exp \left[ \frac{\Theta}{\Omega_{\text{max}}} u \right] - (E - Mc) \exp \left[ - \frac{n-a}{a} \frac{\Theta}{\Omega_{\text{max}}} u \right] \right\}. \quad (2)$$

and

$$u = \frac{c}{K} + C_2. \quad (3)$$

for the general case (IFZh, no. 2, 1963). In the first case, equation (2) is linearized and the dimensionless concentration  $c$  is given by  
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S/170/63/006/003/008/014  
E104/3186

The efficiency of porous ...

$$\eta = \frac{\eta_0}{\sqrt{K_a} \sinh \sqrt{K_a}} [\operatorname{ch}(\zeta \sqrt{K_a}) - \operatorname{ch} \sqrt{K_a}] + (1 - \eta_0) \quad (10)$$

the dimensionless polarization is

$$\eta_a = \frac{1}{\sqrt{K_a}} \frac{\operatorname{ch}(\zeta \sqrt{K_a})}{\sinh \sqrt{K_a}} + \frac{\Omega_{\text{max}}}{(n - a)a} \left[ 1 + \frac{\eta_0}{\sqrt{K_a}} \operatorname{ch} \sqrt{K_a} \right] \quad (11)$$

and the distributions of polarization and of the current in the depth of the electrode are given by

$$\eta = \frac{\eta_0}{aF} \left\{ \frac{1}{\Omega_{\text{max}} \sqrt{K_a} \sinh \sqrt{K_a}} \operatorname{ch}(\zeta \sqrt{K_a}) + \right. \\ \left. + \frac{a}{n - a} \left[ 1 + \frac{\eta_0}{\sqrt{K_a}} \operatorname{ch} \sqrt{K_a} \right] \right\} \quad (12)$$

$$i = \eta_0 \frac{j_0 \sqrt{K_a}}{A \sinh \sqrt{K_a}} \operatorname{ch}(\zeta \sqrt{K_a}) \quad (13)$$

In the second case, equation (2) is simplified and the concentration  
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B104/B186

The efficiency of porous ...

distribution is given by

$$c \approx (1 - \Theta) \left[ \text{ch} \frac{\Psi\Theta}{1 - \Theta} \right]^{-1} \text{ch} \left[ \zeta \frac{\Psi\Theta}{1 - \Theta} \text{clh} \frac{\Psi\Theta}{1 - \Theta} \right]. \quad (15)$$

the polarization distribution and the current distribution are given by  
(17)

$$\begin{aligned} \eta &\approx \frac{RT}{aF} \left\{ \frac{1 - \Theta}{\Psi\Omega_{\text{open}}} \left[ \text{ch} \frac{\Psi\Theta}{1 - \Theta} \right]^{-1} \text{ch} \left[ \zeta \frac{\Psi\Theta}{1 - \Theta} \text{clh} \frac{\Psi\Theta}{1 - \Theta} \right] \right\}^{-1} \\ &\quad + \ln \frac{W}{2A} + 2 \ln \left| \frac{\Theta}{1 - \Theta} \text{clh} \frac{\Theta\Psi}{1 - \Theta} \right|, \\ I &\approx \frac{I_0 \Psi\Theta^2}{A(1 - \Theta)} \text{clh}^2 \frac{\Psi\Theta}{1 - \Theta} \left[ \text{ch} \frac{\Psi\Theta}{1 - \Theta} \right]^{-1} \text{ch} \left[ \zeta \frac{\Psi\Theta}{1 - \Theta} \text{clh} \frac{\Psi\Theta}{1 - \Theta} \right]. \end{aligned} \quad (18)$$

These solutions are studied and the efficiency

$$h = \frac{J}{sLi_1} = \left\{ \sqrt{A\Psi \left( 1 + \frac{vd_{p,n}}{\xi} \right) \left[ 1 + \frac{n - a}{a} \frac{1}{\Omega_{\text{open}} \Psi} \right]} \right\}^{-1} \quad (21)$$

$$\text{clh} \sqrt{A\Psi \left( 1 + \frac{vd_{p,n}}{\xi} \right) \left[ 1 + \frac{n - a}{a} \frac{1}{\Omega_{\text{open}} \Psi} \right]}$$

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The efficiency of porous ...

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for small polarization areas is derived. In the case of large polarization the efficiency is  $h = \frac{1 - \alpha}{\psi \alpha}$  (24). (21) and (24) are analyzed in detail.  $c_p^v$  is the reagent volume concentration,  $u = \eta / R_d L_j$  is the dimensionless polarization, and  $R$  is the effective resistance of the electrode filled with operating mixture,  $\alpha_{peq}$  is the dissipation factor, and  $\psi$  a parameter characterizing the relation between reduction of the transfer in the diffuse boundary layer and the reduction of the transfer in the electrode. There are 2 figures.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR, g. Minsk (Institute of Heat and Mass Transfer AS BSSR, Minsk)

SUBMITTED: July 21, 1962

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L 17136-63

EWT(m)/BDS ESD-3 RH

ACCESSION NR: AP3000444

S/0170/63/006/005/0075/0085

AUTHOR: Gurevich, I. G.; Bagotskiy, V. S.55  
54

TITLE: Operation of porous electrodes under conditions of forced reagent supply

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 5, 1963, 75-85

TOPIC TAGS: porous electrode, forced reagent supply, polarization, electrochemistry, electrochemical reaction, mass transfer

ABSTRACT: A solution was found for the problem of the distribution of an electrochemical process over the depth of a porous electrode of finite thickness under conditions of forced reagent supply. The mode of forced reagent supply is indicated for cases where the rate of an electrochemical reaction and the speed of all electrode processes are governed by the mass-transfer rate. Two alternative forms of reagent supply to the electrode were considered: from the front and from the back. Corresponding expressions are obtained for the distribution of polarization, current and reagent concentration over the depth of the electrode. It was shown that the first alternative, supply of reagent from the front, results in a decrease in polarization, as compared with the second. The gain in polarization was estimated. These conclusions apply only to the region of small polarizations. (Orig. art. has:

Card 1/2

L 17136-63

ACCESSION NR: AP3000444

34 formulas and 4 figures.

ASSOCIATION: Institut teplo- i massoobmena AN BSSR, Minsk (Institute of Heat and Mass Transfer of the AN BSSR)

SUBMITTED: 20Dec62

DATE ACQ: 10Jun63

ENCL: 00

SUB CODE: PH

NO REF Sov: 007

OTHER: 000

Card 2/2

GUREVICH, I.G.

"Cold combustion - fuel cells" a monograph by E.Justi and  
A.Winsel. Reviewed by I.G.Gurevich. Inzh.-fiz.zhur. 6  
no.3:116-117 Mr '63. (MIRA 16:4)  
(Fuel cells) (Justi, E.) (Winsel, A.)

BAGOTSKIY, V. S.; GUREVICH, I. G.; LYKOV, A. V. (prof)

"Sur la theorie de l'action des electrodes poreuses dans les convertisseurs d'energie electrochimiques employant les combustible liquides."

report submitted for Conf on Combustion & Conversion of Energies, Paris, 19-23 May 64.

GUREVICH, I.G., red.; ZHUK, I.P., red.; KONDRASHOV, N.G., red.

[Problems of nonsteady-state heat and mass transfer] Voprosy  
nestatsionarnogo perenosa tepla i massy. Minsk, Nauka, i  
tekhnika, 1965. 162 p. (MIRA 18:10)

1. Akademiya navuk BSSR, Minsk. Institut teplo- i massoobmena.

L 62794-65 EY(1)/EPY(c)/FSS-2/EEC(k)-2/EPY(n)-2/WI0(m)/T-2/ED-2 Pz-5/  
Pr-4/Pu-4 EM/EM  
ACCESSION NR: AP5018456

UR/0364/65/001/007/0874/0876  
541.136

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63

TITLE: Electrical conductivity and pH of an equilibrium carbonatebicarbonate  
electrolyte. 3

SOURCE: Elektrokhimiya, v. 1, no. 7, 1965, 874-876

TOPIC TAGS: electric conductivity, carbonate, fuel cell

ABSTRACT: The article presents the results of measurements of pH and electrical conductivity, two very important characteristics of the equilibrium electrolyte for use in fuel cells with organic fuels. Electrolyte solutions were prepared from  $K_2CO_3$  and  $KHCO_3$ , dissolved in distilled water.  $CO_2$  was passed through the solution until equilibrium was reached. The equilibrium concentration of carbonate and bi-carbonate was determined by titration. The accuracy of analysis was +3.3% for carbonate and +1.5% for bicarbonate. A Kohlrausch bridge was used for the measurement of the electrical conductivity. In the experiments a ZG-10 audio frequency generator was used. The working frequency was 1500 cps. An EC-6M oscilloscope was used as null indicator. The temperature of the thermostat in which the electrolytic cell

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was placed was maintained constant with accuracy of  $\pm 0.02^\circ\text{C}$ . A glass electrode was used for pH measurement. The electrical conductivity and pH were measured in the  $70 - 90^\circ\text{C}$  range. The results of measurements are shown in Fig. 1 and Fig. 2 of the Enclosure. The pH values of equilibrium electrolyte were within the 8.5 - 9.0 range. The pH of solutions changes very little with increase of temperature. Orig. art. has: 1 table and 2 figures.

ASSOCIATION: Institut teplo- i massoobmena Akademii nauk BSSR (Institute of Heat and Mass Exchange, Academy of Sciences Belorussian SSR)

SUBMITTED: 22Jan65

ENCL: 02

SUB CODE: E41, GC

NO REF Sov: 003

OTHER: 002

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ACCESSION NR: AP5018456

ENCLOSURE: 01

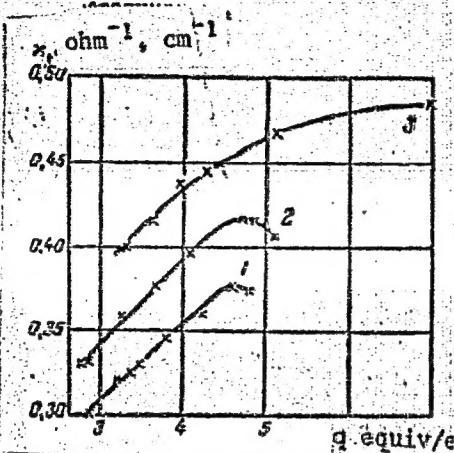


Fig. 1. Specific conductance of the equilibrium electrolyte as a function of the total concentration at different temperatures: 1--70° C, 2--80° C, 3--90° C.

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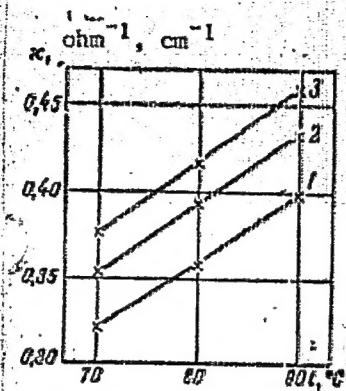


Fig. 2. Specific conductance of the equilibrium electrolyte as a function of temperature at different concentrations: 1--3.3 g equiv/l; 2--4.0 g equiv/l; 3--4.8 g equiv/l.

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